

# BUILDING TODAY

## WITH TOMORROW'S **MATERIALS!**

Sustainable high-tech  
ceramic products.



# A HISTORY OF IDEAS & PEOPLE

starting in  
**1935**

**A 90-year journey with a steadfast focus on quality and growth, vindicating three generations of a successful family business.**

**NORTHERN GREECE CERAMICS** is now in its third generation of the family tradition in the brick and roof-tile industry. A tradition launched in 1935 and successfully continued by **Stavros Kothalis**, founder of the Kothalis Group and the inspiration behind **KEBE**. During his time at **KEBE**, the company recorded exponential growth!

**The new management, staying true to the family values and ideas, is looking to the future of the new state-of-the-art production unit with optimism and confidence.**



## HUMAN RESOURCES



**KEBE** acknowledges that its strength is in its **people**. Its human resources consist of qualified personnel, recruited both from the scientific and the technical field, thus firmly laying its foundations for a successful future. The company fosters a working environment that encourages initiative and promotes productivity among its employees.

Recognising the value of knowledge and education, **KEBE** continuously invests in its people by providing in-house or external training and seminars provided by academic experts.

It also ensures that this knowledge is shared with the company's partners and customers by organizing conferences on modern building technologies.



# Energy Savings

Innovation, Quality, Ecology...

... are the core values of **Northern Greece Ceramics (KEBE S.A.)**, which has been running its production lines since **2008** at its Nea Santa factory, in the Prefecture of Kilkis (main plant) and the factory in Larissa.

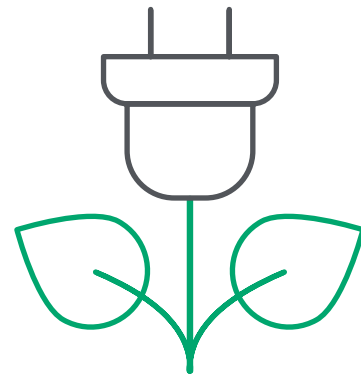
It aims to introduce to the market new products made of clay - a purely ecological material - products that are of high quality, bioclimatic design and clean building technologies.

A leader in the Greek market, it also has a significant presence in the Balkans and strong export activity in more than **30 countries**.

It is the first to present to the Greek market ceramic building materials that offer both significant energy and cost savings.

**KEBE's** facilities span across a privately-owned area of 235,000 m<sup>2</sup>, with a 42,000 m<sup>2</sup> industrial building and a 12,000 m<sup>2</sup> industrial raw material storage outbuilding at a strategic location in Nea Santa, Kilkis. They are situated very close to the Egnatia Highway and its vertical axes, at the borders of Greece within the broader Balkan region, and only 25 km from the port of Thessaloniki.

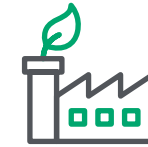
The plant consists of **two autonomous brick and roof tile production units, and an independent roof accessory production line**.



## ANNUAL PRODUCTION CAPACITY

Nea Santa Plant

- **700 tons** of bricks
- **75 million** pieces of roof tiles & special roof accessories



**The production process is fully automated with modern robotic technology applications**, which, combined with a high-precision control system, ensure the high quality of the products and minimize energy consumption and greenhouse gas emissions.

**The environment** is a key concern for KEBE. Its respect for nature that provides the raw material, its participation in research programs and the search for alternative energy sources are a practical demonstration of the company's concern for environmentally conscious construction and living.

**KEBE's greatest challenge** is to meet clients' expectations for fully harmonized solutions in line with the principles of bioclimatic design, while committing to even more innovative and efficient solutions.

**A "green" investment** in the production of building materials made of clay, a purely ecological product with minimal energy consumption and zero pollution of the environment.







# PRODUCTS

**Dutch**  
TILE

**+** 35 cm BATTEN SPACING  
42 X 25 cm DIMENSIONS

3,40 Kg/pc

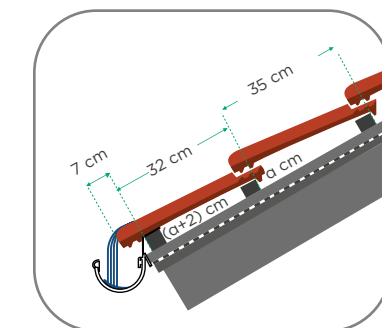
**14** pcs/m<sup>2</sup>

>20 HOURS (EN 539-1) WATER IMPERMEABILITY  
150 CYCLES (EN 539-2) FROST RESISTANCE

COLORS  
ON DEMAND  
— VALUE —

- |   |   |   |
|---|---|---|
|  |  |  |
| GLAZED  | RED   | BROWN   |
|  |  |  |
| OCHRE   | BLUE  | GREEN   |
|  |  |   |
| GREY  | BLACK   |   |

The “soft” curve ending of the **Dutch-type roof tile** provides an aesthetically pleasing result. It is also available glazed and in a range of colors.



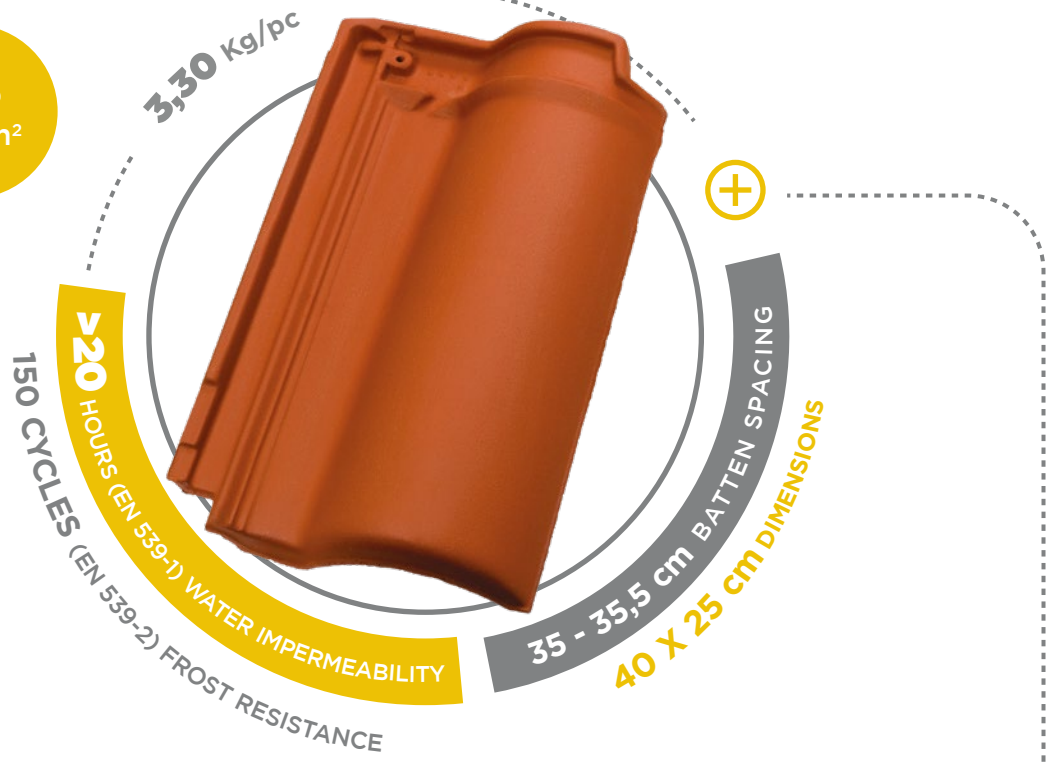
Recommended roof slope using covering (e.g. membrane):

**30% (17°)**

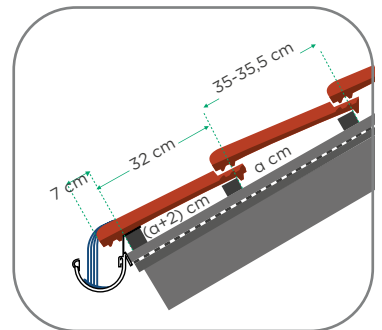
# Roman

TILE

13  
pcs/m<sup>2</sup>



The Roman-type roof tile, thanks to its very close resemblance to the Byzantine tile, is ideal for more traditional constructions. It is also available glazed or in a range of colors.



Recommended roof slope using covering (e.g. membrane):  
**30% (17°)**

COLORS  
ON DEMAND  
— VALUE —

-  GLAZED
-  RED
-  BROWN
-  OCHRE
-  BLUE
-  GREEN
-  GREY
-  BLACK

# Marseille

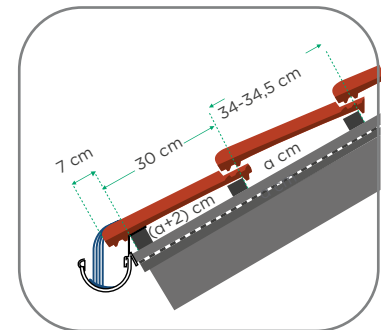
TILE

14  
pcs/m<sup>2</sup>



With roots in France, it is yet another option for more traditional constructions.

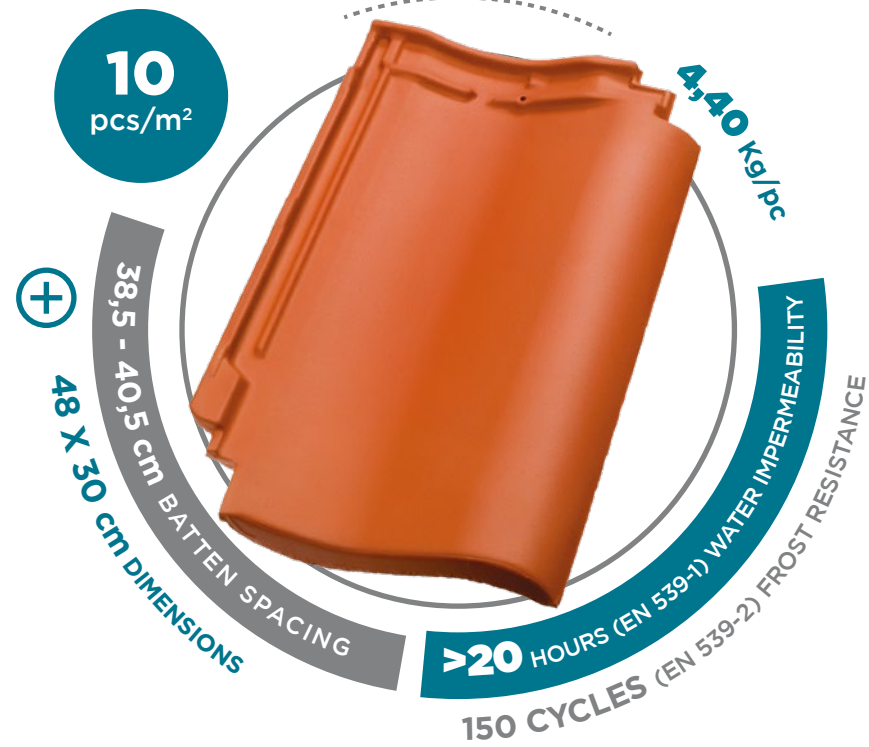
AVAILABLE  
ONLY IN  
NATURAL  
COLORING



Recommended roof slope using covering (e.g. membrane):  
**30% (17°)**

# Mediterranean

TILE

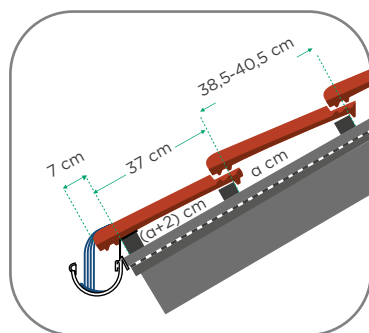


**COLORS ON DEMAND**  
— VALUE —

- |        |       |       |
|--------|-------|-------|
|        |       |       |
| GLAZED | RED   | BROWN |
|        |       |       |
| OCHRE  | BLUE  | GREEN |
|        |       |       |
| GREY   | BLACK |       |

Its **perfectly harmonic curve** gives an impression of gently rolling waves, creating new architectural possibilities.

**Quick installation** (only 10 pcs/m<sup>2</sup>), **adjustability to the distance between battens, cost-effectiveness per m<sup>2</sup>**, are its major advantages.



Recommended roof slope using covering (e.g. membrane):

**30% (17°)**

# Macedonian

TILE

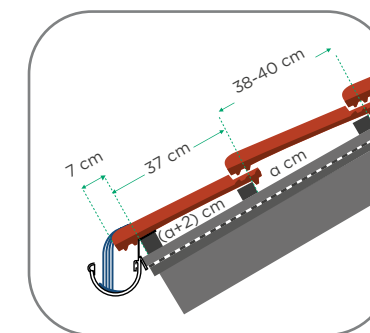


**COLORS ON DEMAND**  
— VALUE —

- |        |       |       |
|--------|-------|-------|
|        |       |       |
| GLAZED | RED   | BROWN |
|        |       |       |
| OCHRE  | BLUE  | GREEN |
|        |       |       |
| GREY   | BLACK |       |

Designed to aesthetically resemble the traditional Byzantine roof tile, it has all the safety and convenient installation advantages of modern large roof tiles.

**Quick installation** (only 10 pcs/m<sup>2</sup>), **adjustability to the distance between battens, cost-effectiveness per m<sup>2</sup>** are its major advantages.



Recommended roof slope using covering (e.g. membrane):

**30% (17°)**

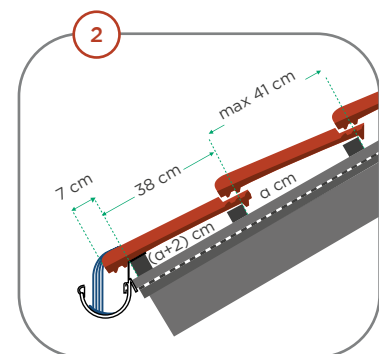
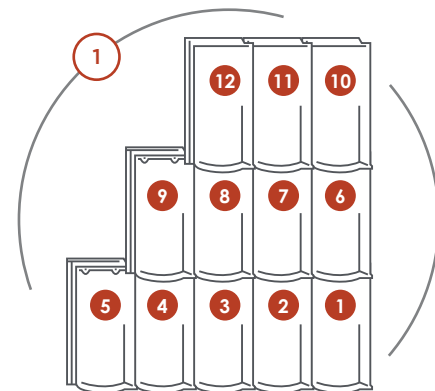
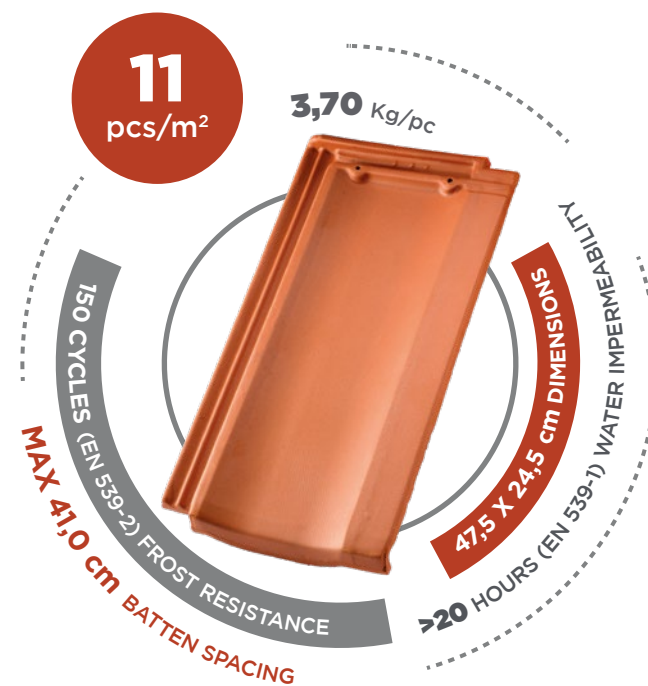
# Novel

TILE

Available in natural, glazed, colored, and all styles of **colors on demand**.

Ideal architectural choice for modern constructions that require a **flat roof surface**.

Their **overlapping surface** may be increased or decreased depending on the technical requirements of the roof (we can interlock the roof tiles so no roof tiles need to be cut at the finishing).



Recommended roof slope using covering (e.g. membrane):

**30% (17°)**

- > For easier installation follow the numerical sequence in picture (1)
- > The first rafter must be 2 cm higher than the others, to get a symmetrical installation (2)
- > The roof tile must protrude 7 cm from the first rafter (2)
- > The distance between battens must be max 41,00 cm (2)
- > The correct installation of special ventilation roof accessories ensures proper hydrothermal behaviour and preservation of the roof
- > A breathing, waterproof membrane must be installed under the roof tiles, for even greater impermeability

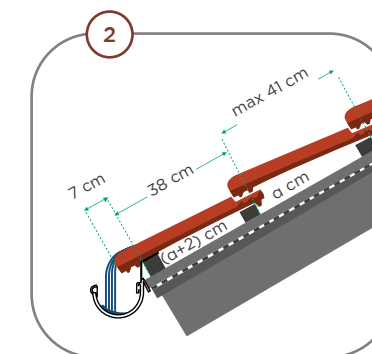
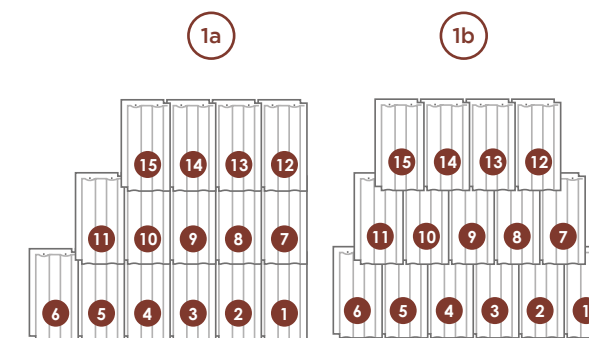
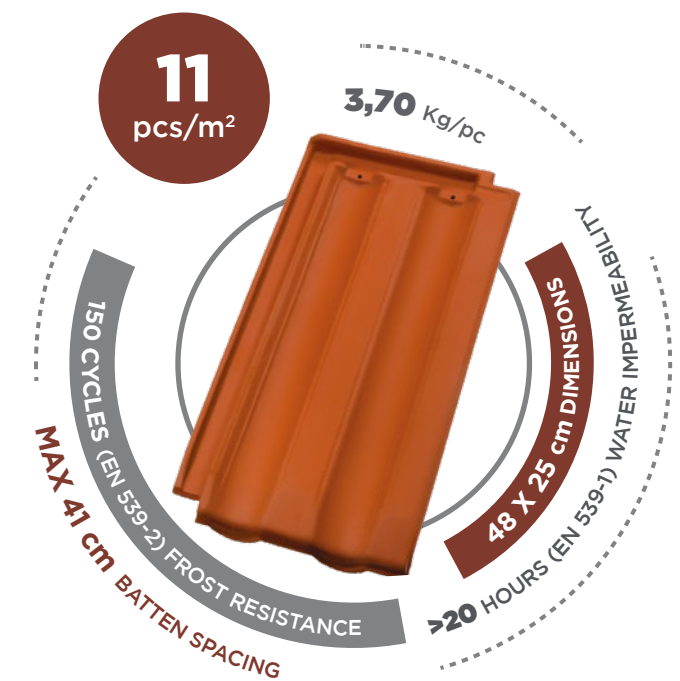
# Ideal

TILE

Available in natural, glazed, colored, and all styles of **colors on demand**.

Modern lines, combining the traditional component of the classic French tile with a **flatter and more contemporary surface**.

Their **overlapping surface** may be increased or decreased depending on the technical requirements of the roof (we can interlock the tiles so no tiles need to be cut at the finishing).



Recommended roof slope using covering (e.g. membrane):

**30% (17°)**

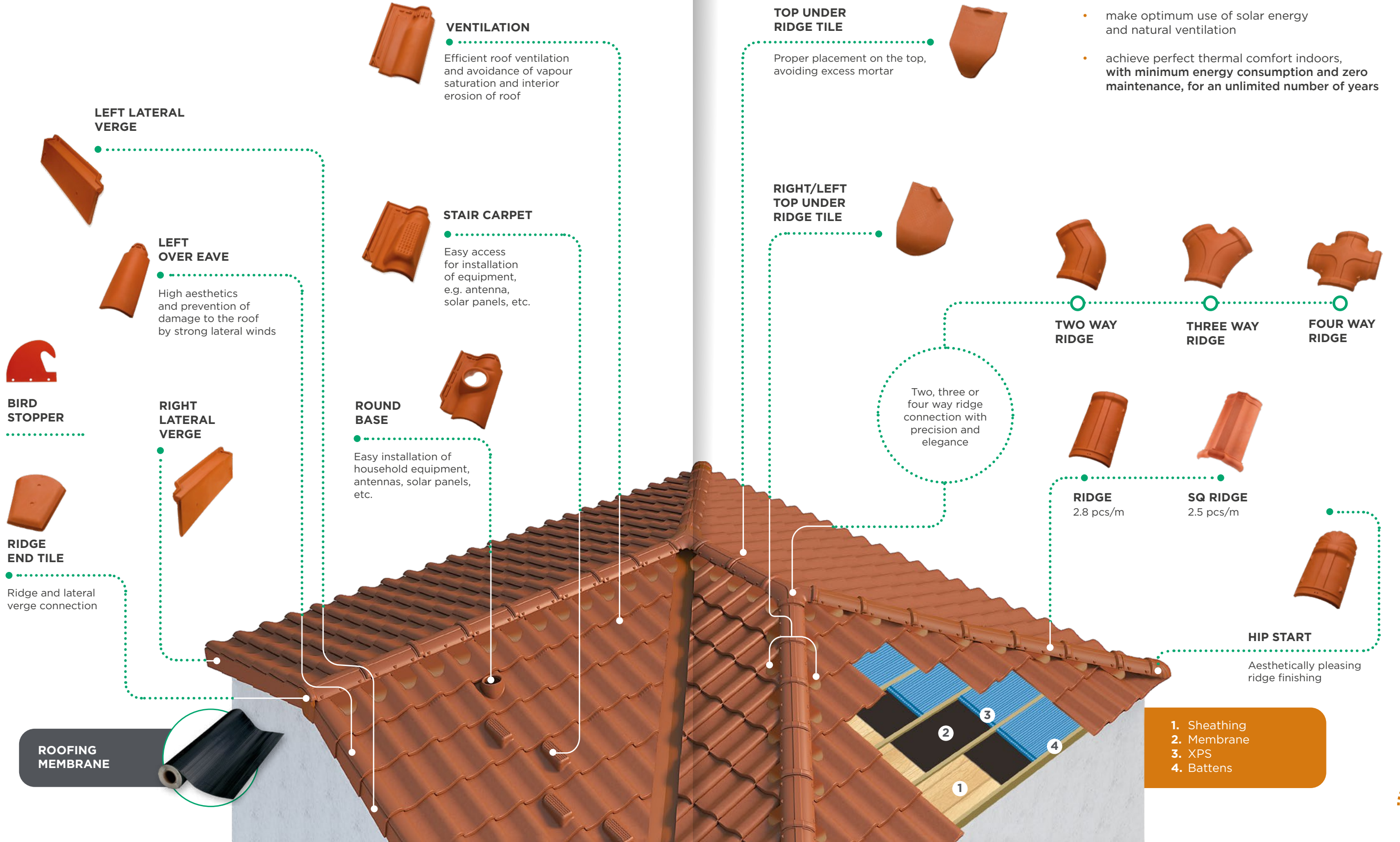
- > For better installation follow the sequence in picture (1a or 1b)
- > The first rafter must be 2 cm higher than the others, to get a symmetrical installation (2)
- > The roof tile must protrude 7 cm from the first rafter (2)
- > The distance between battens must be max 41,00 cm (2)
- > The correct installation of special ventilation roof accessories ensures proper hydrothermal behaviour and preservation of the roof
- > A breathing, waterproof membrane must be installed under the roof tiles, for even greater impermeability



# SPECIAL ROOF ACCESSORIES

for all roof tile types

High quality clay roof tiles on a ventilated wooden frame offer the **highest energy savings** - especially during the summer months - and the **longest service life**, while requiring minimum maintenance.



**LEFT LATERAL VERGE**

**LEFT OVER EAVE**

**BIRD STOPPER**

**RIDGE END TILE**

**RIGHT LATERAL VERGE**

**ROUND BASE**

**STAIR CARPET**

**VENTILATION**

**TOP UNDER RIDGE TILE**

**RIGHT/LEFT TOP UNDER RIDGE TILE**

**TWO WAY RIDGE**

**THREE WAY RIDGE**

**FOUR WAY RIDGE**

**RIDGE**  
2.8 pcs/m

**SQ RIDGE**  
2.5 pcs/m

**HIP START**

1. Sheathing
2. Membrane
3. XPS
4. Battens

Ventilated roofs using **KEBE** thermal mass roof tiles and the full range of roof accessories:

- are excellent passive heat exchange systems
- make optimum use of solar energy and natural ventilation
- achieve perfect thermal comfort indoors, **with minimum energy consumption and zero maintenance, for an unlimited number of years**



# COLORS ON DEMAND — VALUE —

KEBE offers a rich range of colors for all roof tile types (Dutch, Roman, Mediterranean, Macedonian, Novel & Ideal Marseille) and the respective roof accessories.

However, KEBE's new product R&D department, holding a key role in the company's strategic growth, does not stop here!

**Colors on Demand Value** is a personalised service offered to KEBE's customers.

Work with R&D and the sales department and ask us to tailor our products to your wishes, with no limitation to style and color, to satisfy even the most demanding aesthetic approach.

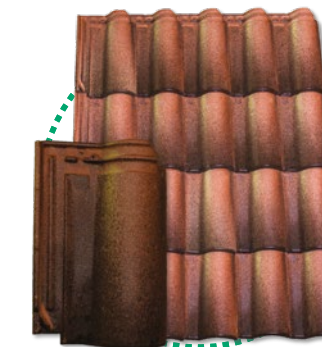
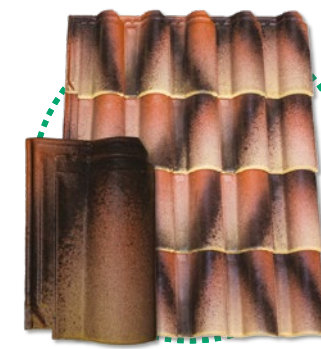
Is there something you have imagined? **Just ask for it!**

## ANTIQUE RANGE

Roof tiles giving the impression of the natural wear and tear of time, in complete harmony with the natural environment.



## INDICATIVE RANGES

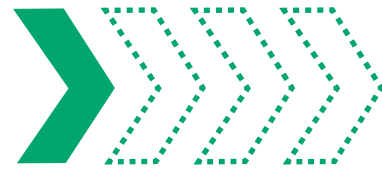


# KEBE IN THE WORLD!

With a fully organised exports division, **KEBE** is constantly expanding in the **international market** with a significant presence in more than 30 countries.

The company's export activities, in combination with its top-quality products, have led to the international recognition of **KEBE** and the establishment of a strong brand name.

**Its products are currently exported to the following countries:**



- AZERBAIJAN
- EGYPT
- ALBANIA
- ALGERIA
- USA
- ARMENIA
- AUSTRALIA
- BULGARIA
- N. MACEDONIA
- BOSNIA AND HERZEGOVINA
- GERMANY
- GEORGIA
- UAE
- INDIA
- IRAQ
- IRAN
- ISRAEL
- CHINA
- KOREA
- KOSOVO
- CYPRUS
- LEBANON
- LIBYA
- MOLDAVIA
- NEW ZEALAND
- UKRAINE
- ROMANIA
- RUSSIA
- SAUDI ARABIA
- SERBIA
- SLOVAKIA
- SUDAN
- SWEDEN
- TURKEY
- CZECH REPUBLIC



The scientifically and technically qualified personnel of **KEBE** offer full support to customers, providing all the information required on the products, as well as technical advice for their use.

**KEBE** is in close cooperation with its customers, offering both in-person and over-the-phone support and it also participates in business delegations and international trade fairs. Throughout the year, an open invitation is extended to all our foreign customers to visit our premises and attend a presentation of our entire range of innovative products and to exchange views and ideas.








 ALEXANDRA GOLDEN HOTEL, THASSOS  
**DUTCH ON DEMAND**



 HOTEL, HALKIDIKI  
**MEDITERRANEAN GREY**



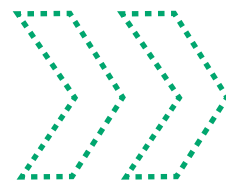
 HOLIDAY HOME, HALKIDIKI  
**NOVEL BROWN**



 RESIDENTIAL COMPLEX, CORFU  
**ROMAN FANTAISIE**



 RESIDENTIAL COMPLEX, CYPRUS  
**MEDITERRANEAN BROWN**



 SHOPPING MALL, KERALA, INDIA  
**MACEDONIAN BROWN**



 VILLA, KOSOVO  
**IDEAL BLACK**



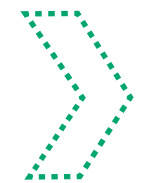
 VILLA, DUBAI  
**DUTCH BLUE**



 HOLIDAY HOME, LEBANON  
**DUTCH GREEN**



 BELIS HOTEL, ANTALYA, TURKEY  
**MACEDONIAN NATURAL**

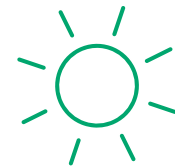




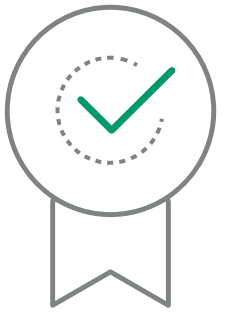
**KEBE's vision is to reintroduce traditional bioclimatic architecture, using the most advanced clay structural materials.**

**Sustainability** is about meeting current needs by making responsible use of natural and financial resources, so the generations to come can meet their needs in the future.

**Bioclimatic Architecture** refers to designing and constructing buildings using readily available building materials while taking advantage of all available renewable energy resources such as the sun, the wind etc.



**KEBE certifies and commits to the high quality of its products.**



**> EN ISO 9001:2015**  
The company has been certified under **ELOT EN ISO 9001:2015** for the design, production and trade of its products, which are accompanied by the CE Certificate of Conformity, by means of which our company certifies their properties and guarantees them.



**> KIWA** certifies that KEBE's roof tiles rank at the highest level of frost resistance (level 1 - 150 cycles).



**> EN ISO 14001:2015**  
The company was certified for implementing, maintaining and continuously improving an Environmental Management System in line with the requirements of ISO 14001.

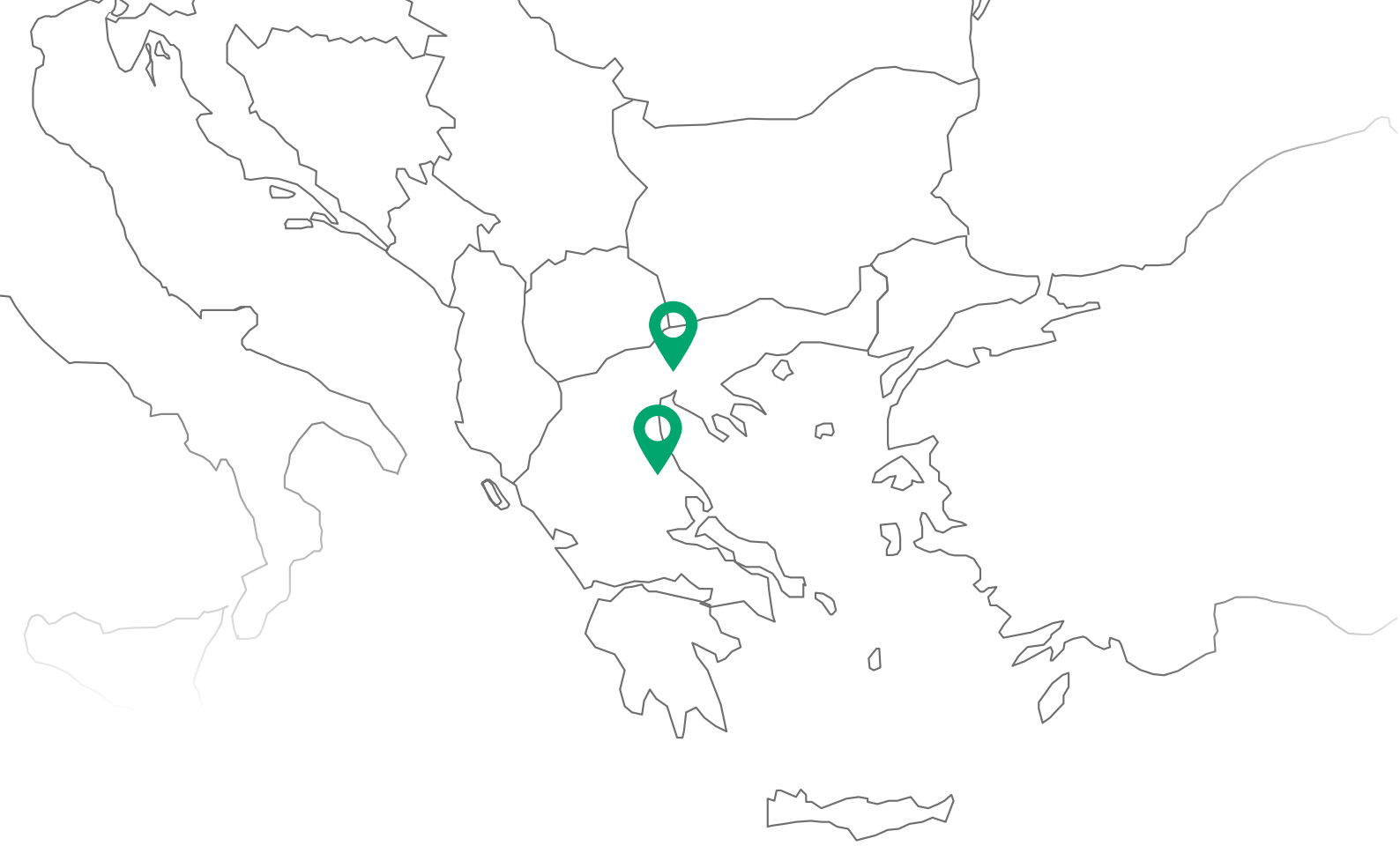


**> EN ISO 45001:2018**  
The company has been certified for implementing, maintaining and continuously improving the Health and Safety at Work system, in line with the ISO 45001 standard.



**> EN ISO 26000:2010**  
The company has been inspected and confirmed to meet the requirements of the ISO 26000 standard for Corporate Social Responsibility.





**HEAD OFFICES / FACTORY:**

Nea Santa, Kilkis, 611 00

**T** +30 23410 75570 | **F** +30 23410 75574

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**THESSALONIKI OFFICE:**

12<sup>th</sup> km Thessaloniki - Moudania, 570 01

**T** +30 2310 474100 | **F** +30 2310 473080

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**LARISSA FACTORY**

5<sup>th</sup> km Larissa - Sykourio, 410 04

**T** +30 2410 575300 | **F** +30 2410 575307

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[trade@kebe-sa.gr](mailto:trade@kebe-sa.gr)



KEBE S.A. - Heavy Clay Building Materials



BricksRoofTiles



KEBE S.A.



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